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## Claims

1. A communication system comprising  
a first communication device (1);  
5 a first network control device (20; 21) for  
controlling a first network to which said first  
communication device (1) is connected; and  
a first interface establishing device (30; 31; 32)  
connected between said first network control device (20;  
10 21) and a transmitting network (4); wherein  
said first communication device (1) and said first  
network control device (20; 21) are connected such that a  
use signal (US) and a control signal (CS) are sent  
separately to said first network control device (20; 21);  
15 and  
said first network control device (20; 21) and said  
first interface establishing device (30; 31; 32) are  
connected such that said use signal (US) and said control  
signal (CS) are sent separately to said first interface  
20 establishing device (30; 31; 32).
2. A communication system according to claim 1, wherein  
said first interface establishing device (30) comprises a  
control signal transfer means (30b) for receiving said  
25 control signal (CS) from said first network control  
device (20) and sending said control signal (CS) over  
said transmitting network (4).
3. A communication system according to claim 2, wherein  
30 said first interface establishing device (30) comprises a  
compressing means (30a) for compressing said use signal,

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the compressed signal being sent over said transmitting network (4).

4. A communication system according to claim 3, further  
5 comprising

a second interface establishing device (50)  
connected to said transmitting network (4); wherein  
said second interface establishing device (50)  
comprises

10           a decompressing means (50a) for decompressing  
said use signal (US) received via said network (4);  
and

15           a tone generation means (50c) for receiving  
said control signal (CS) and generating a tone  
signal (TS) in response to said control signal (CS).

5. A communication system according to claim 4, further comprising

a second communication device (7); and  
20 a second network control device (60) wherein  
said use signal (US) and said tone signal (TS) is  
combined in said second interface establishing device  
(50);

said combined signal is received by said network  
25 control device (60) and sent to said second communication  
device (7).

6. A communication system according to claim 3, further comprising

30       a second interface establishing device (51; 52)  
connected to said transmitting network (4); and  
a second network control device (61; 62); wherein

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said second interface establishing device (51; 52) comprises

5 a decompressing means (51a; 52a) for decompressing said use signal received via said network (4); and

a control transfer means receiving said control signal and sending said control signal to said second network control device (61; 62).

10 7. A communication system according to claim 6, further comprising

a second communication device (7); wherein

15 said second network control device (61) comprises a tone generation means (61a) for receiving said control signal and generating a tone signal (TS) in response to said control signal;

said use signal and said tone signal (TS) is combined in said second network control device (61); and

20 the combined signal is sent to said second communication device (7).

8. A communication system according to claim 6, further comprising

a second communication device (72); wherein

25 said second network control device (62) sends said control signal (CS) and said use signal (US) separately to said second communication device (72).

30 9. A communication system according to claim 8, wherein said second communication device (72) comprises a tone generation means (72a) for receiving said control

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signal (**CS**) and generating a tone signal (**TS**) in response to said control signal (**CS**).

10. A communication system according to any of the  
5 previous claims, wherein

said tone signal generated in response to said control signal (**TS**) is a DTMF signal.

11. A communication system according to any of the  
10 previous claims, wherein

said control signal is generated in the first communication means (**1**) in response to an operation of a key.

12. A communication system according to any of the  
15 previous claims, wherein

said network (**4**) is an IP based network.

13. A communication system according to any of the  
20 previous claims, wherein

said first communication device (**1**) is a mobile phone.

14. A communication system according to any of the  
25 claims 1 to 12, wherein

said first communication device (**1**) is a fixed phone.

15. A communication system according to any of the  
30 previous claims, wherein

said second communication device (**7; 72**) is a mobile phone.

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16. A communication system according to any of the claims 1 to 14, wherein

said second communication device (7; 72) is a fixed phone.

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17. A communication system according to any one of the previous claims, wherein

said first network control device (20) and said first interface establishing means (30) are constructed as one unit.

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18. A communication system according to any one of the claims 1 to 16, wherein

said first network control device (20) and said  
15 first interface establishing means (30) are constructed  
as separate units.

15

19. A communication system according to any one of the previous claims, wherein

20        said second network control device (50; 51) and said  
first interface establishing means (60; 61; 62) are  
constructed as one unit.

20

20. A communication system according to any one of the  
25 claims 1 to 18, wherein

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said first network control device (50; 51) and said first interface establishing means (60; 61; 62) are constructed as separate units.

30 21. A communication system according to any one of the  
claims 1 to 3, further comprising a network communication  
device (73) connectable directly to said network (4) such  
that said control signal (CS) and said use signal (USC)

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is transmitted from said first interface establishing device (30) to said network communication device (73).

22. A communication system according to claim 21,  
5 wherein said network (4) is an IP based network and said network communication device (73) is an IP phone.

23. A communication system according to claim 1, wherein  
10 said first network interface establishing means (32) comprises a tone generator (32a).

24. A communication method for a communication system  
comprising a first communication device (1), a first  
network control device (20) for controlling a first  
15 network to which said first communication device (1) is connected and a first interface establishing device (30) connected between said first network control device (20) and a transmitting network (4); said method comprising the steps of  
20 sending (S1) a use signal (US) and a control signal (CS) from said first communication device (1) to said first network control device (20) separately; and  
sending (S2) said use signal (US) and said control signal (CS) from said first network control device (20)  
25 to said first interface establishing device (30) separately.

25. A method according to claim 24, further comprising  
the step of sending (S3) said control signal (CS) over  
30 said network (4).

